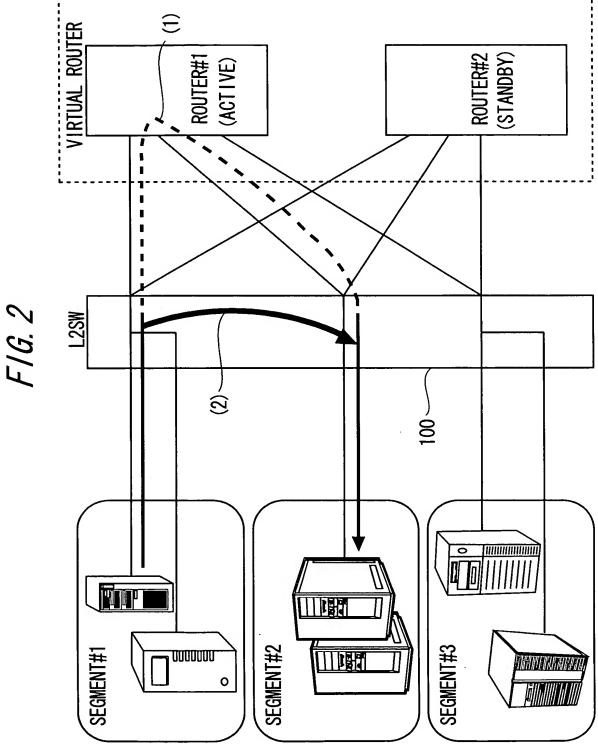
WAN LINE VIRTUAL ROUTER (STANDBY) WAN ROUTER#2 WAN ROUTER#1 (ACT IVE) L2SW F/G. 1 SEGMENT#3 SEGMENT#2 SEGMENT#1 OOOOOOO 0



(MAC-R2, IP-R2) VIRTUAL ROUTER Ξ CS (ACT IVE) ROUTER#2 (STANDBY) (MAC-R1, IP-R1) F16.3 L2SW (MAC-A, IP-A) (MAC-B, IP-B) 3 8 SEGMENT#3 SEGMENT#2 SEGMENT#1 <u>UUUUUUU</u> ATTAMOTERIAL 0

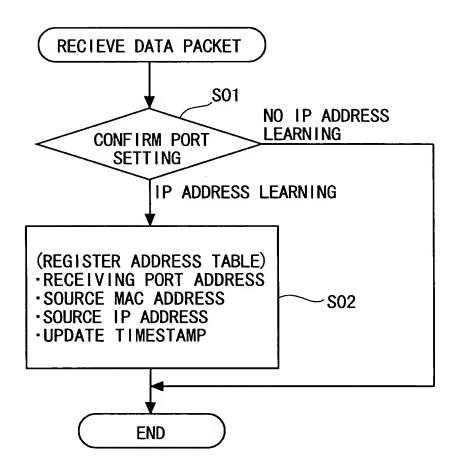
F1G. 4

TABLE1: CHARACTERISTICS OF DATA BETWEEN SEGMENTS UNDER L2SW

	DIRECTION	MAC A	MAC ADDRESS	IP AD	IP ADDRESS
	DATA	SOURCE	DESTINATION	SOURCE	DESTINATION
A→B	INANI	MAC-A <1>	MAC-R1 <3>→<5>	IP-A	IP-B
DATA	OUTPUT	MAC-R2 <4>←<6>	MAC-B <2>	IP-A	IP-8
B→A BIDECTION	INdni	MAC-B <2>	MAC-R2 <4>→<6>	IP-B	IP-A
DATA	OUTPUT	MAC-R1 <3>←<5>	MAC-A <1>	IP-B	IP-A

ADDRESS TABLE	E	8	
PORT	MAC ADDRESS	IP ADDRESS	TIMESTAMP
-	MAC-A	V-d1	
2	MAC-B	8-d1	

F/G. 6

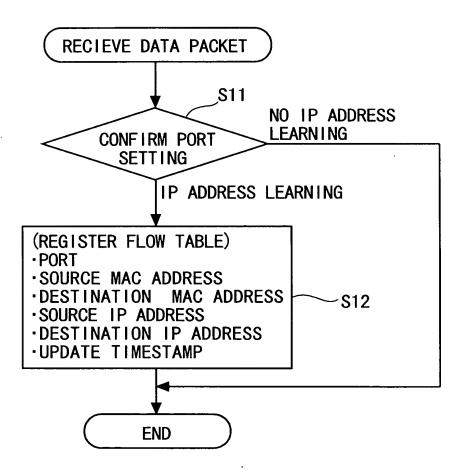


F16. 7

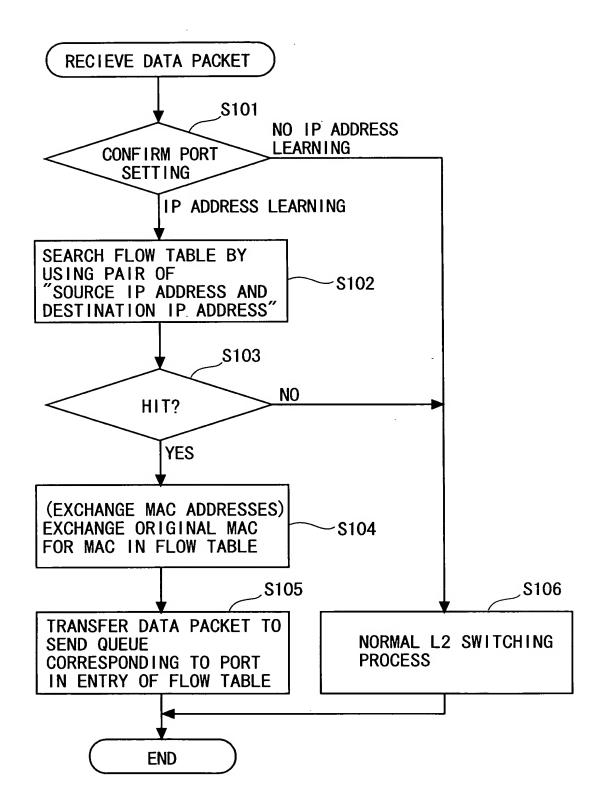
FLOW TABLE

1400	MAC AI	MAC ADDRESS	IP AD	IP ADDRESS	TIMESTAMP
Ž	SOURCE	DESTINATION	SOURCE	DESTINATION	
-	MAC-R1	MAG-A	IP-B IP-A	H-4	
2	MAC-R2	MAC-B	IP-A IP-B	/ [P-8	

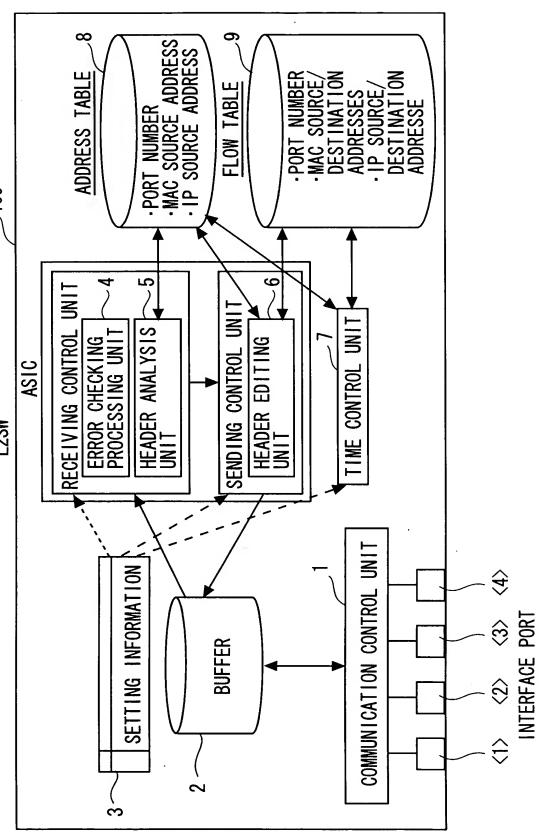
F/G. 8



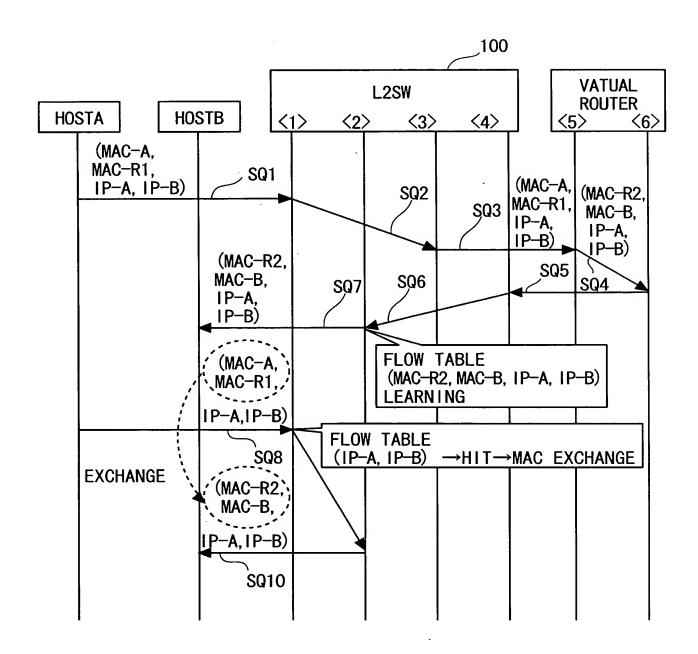
F/G. 9



5 F/G. 10 ASIC L2SW

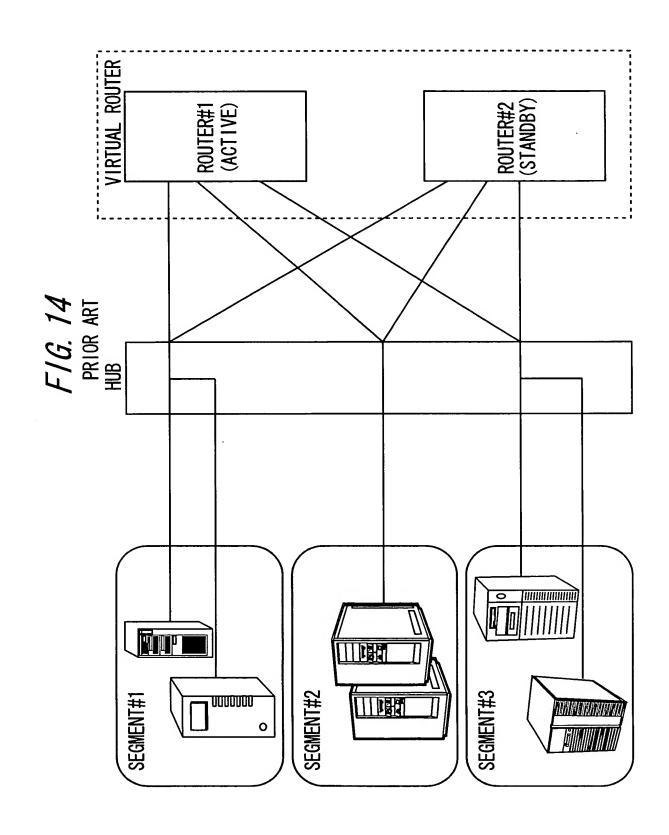


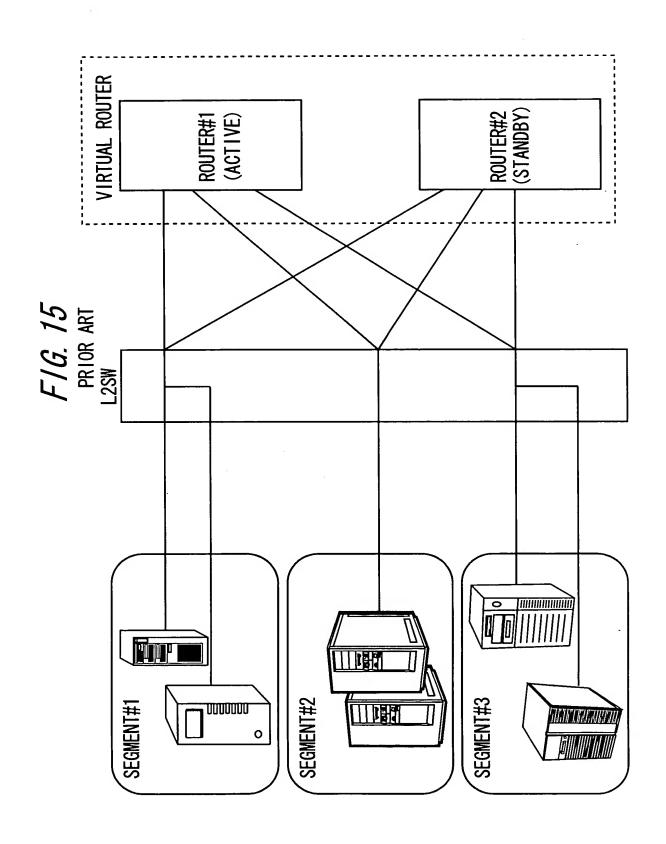
F/G. 11



VIRTUAL ROUTER ROUTER#2 (STANDBY) ROUTER#1 (ACT IVE) F16. 12 PRIOR ART HUB SEGMENT#2 SEGMENT#1 טטטטטטט 0

VIRTUAL ROUTER ROUTER#2 (STANDBY) ROUTER#1 (ACT I VE) F1G. 13 PRIOR ART 黑





WAN Router WAN Router VIRTUAL ROUTER ROUTER#2 ROUTER#1 F1G. 16 PRIOR ART III III SEGMENT#3 SEGMENT#1 SEGMENT#2 0000000 0